Sheet '1 of '3				0				
-FORM PŢQ 1449 (modified)				ATTY DOCKET NO. 37697-0035				
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				APPLICANT Edward W. MERRILL et	7 u.s.			
		ES CITED BY APPLIC sheets if necessary)		FILING DATE GROUP Concurrently herewith To be assigned			i 101 () () () () () () () () () (
			U.	S. PATENT DOCUMENTS				
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE (M/D/Y)	NAME	CLAS	S SUBCLASS	FILING DATE IF APPROPRIATE	
CM.	A01	5,650,485	7/22/97	SUN ET AL.				
C MC	A02	5,728,748	3/17/98	SUN ET AL.				
CM	A03	3,297,641	1/10/67	WERBER ET AL.				
CM	A04	3,352,818	11/14/67	MEYER ET AL.				
CM	A05	3,758,273	9/11/73	JOHNSTON ET AL.				
(M)	A06	4,535,486	8/20/85	ROBERTS ET AL.	623	22		
M	A07	5,123,924	6/23/92	SIOSHANSI ET AL.	623	16		
CM	A08	5,123,925	6/23/92	SMESTAD ET AL.	623	16		
CM,	A09	3,944,536	3/16/76	LUPTON ET AL.	526	352		
\mathcal{M}	A10	4,655,769	4/7/87	ZACHARIADES ET AL.	623	1		
CM	A11	4,747,990	5/31/88	GAUSSENS ET AL.	623	22		
(M)	A12	4,944,974	7/31/90	ZACHARIADES	428	36.1		
CM	A13	5,024,670	6/18/91	SMITH ET AL.	623	18		
Cm	A14	5,037,928	8/6/91	LI ET AL.	526	352		
(m)	A15	5,160,464	11/3/92	WARD ET AL.	264			
CM	A16	5,160,472	11/3/92	ZACHARIADES	264	136		
M	A17	5,407,623	4/18/95	ZACHARIADES ET AL.	264	119		
M	A18	5,515,590	5/14/96	PIENKOWSKI	427	2.26		
CW	A19	5,543,471	8/6/96	SUN ET AL.	525			
CM	A20	5,549,698	8/27/96	AVERILL ET AL.	623	22		
(m)	A21	5,549,700	8/27/96	GRAHAM ET AL.	623	22		
CM	A22	5,593,719	1/14/97	DEARNALEY	427	2.26		
EXAMINER ()	NN	rellin h		DATE CONS	SIDERED	13/38/3001		

ATTY DOCKET NO. 37697-0035 SERIAL NO. To be assigned	Sheet '2.of '3									
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) FILING DATE Concurrently herewith U.S. PATENT DOCUMENTS TEXAMINER INITIAL DOCUMENT NUMBER (M/D/Y) A23 5,414,049 5/9/95 SUN ET AL. 525 CM A24 5,449,745 9/12/95 SUN ET AL. 528 CM A25 5,466,530 11/14/95 ENGLAND ET AL. 428 CM A26 5,478,906 12/26/95 HOWARD 526 352 CM A27 5,480,683 1/2/96 CHABROL ET AL. 427 2.26 CM A28 5,879,400 3/9/99 MERRILL ET AL. 623 22 FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER (M/D/Y) A29 WO98/01085 1/15/98 WIPO A30 JP58157830A 9/20/83 JAPAN CM A31 EP0729981A1 9/4/96 EUROPE A33 EP0732973A1 7/24/96 EUROPE A34 EP0373800A1 6/20/90 EUROPE A35 JP04185651A 7/2/92 JAPAN CM A36 JP041882242 6/17/92 JAPAN	FORM PTO 1449 (modified	d)							
PATENT AND TRADEMARK OFFICE Edward W. MERRILL et al.					37697-0035 To be assigned					
Concurrently herewith To be assigned										
Concurrently herewith To be assigned	LIST OF REF	ERENCE	ES CITED BY APPLIC	ANT(S)	CHING DATE COOLD					
*EXAMINER INITIAL DOCUMENT NUMBER (M/DY) NAME CLASS SUBCLASS FILING DATE IF APPROPRIATE **CAM** A23 5.414,049 5/9/95 SUN ET AL. 525 **CAM** A24 5.449,745 9/12/95 SUN ET AL. 528 **CAM** A25 5.466,530 11/14/95 ENGLAND ET AL. 428 **CAM** A26 5.478,906 12/26/95 HOWARD 526 352 **CAM** A27 5.480,683 1/2/96 CHABROL ET AL. 427 2.26 **CAM** A28 5.879,400 3/9/99 MERRILL ET AL. 623 22 **FOREIGN PATENT DOCUMENTS** **DOCUMENT NUMBER (M/DY) COUNTRY CLASS SUBCLASS TRANSLATION YES NO				AIV1(0)		ewith			ed	
NUMBER	· · · · · · · · · · · · · · · · · · ·			Ü.	S. PATENT DOCU	MENTS				
A23 5,414,049 5/9/95 SUN ET AL. 525 CM A24 5,449,745 9/12/95 SUN ET AL. 528 CM A25 5,466,530 11/14/95 ENGLAND ET AL. 428 CM A26 5,478,906 12/26/95 HOWARD 526 352 CM A27 5,480,683 1/2/96 CHABROL ET AL. 427 2.26 CM A28 5,879,400 3/9/99 MERRILL ET AL. 623 22 FOREIGN PATENT DOCUMENTS DOCUMENT (M/D/Y) CLASS SUBCLASS TRANSLATION YES NO YES NO A29 WO98/01085 1/15/98 WIPO A30 JP58157830A 9/20/83 JAPAN A31 EP0729981A1 9/4/96 EUROPE CM A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE CM A34 EP0373800A1 6/20/90 EUROPE CM A35 JP041885651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	*EXAMINER		DOCUMENT	DATE	NAME	CLA	SS	SUBCLASS		
A24 5,449,745 9/12/95 SUN ET AL. 528	INITIAL		NUMBER	(M/D/Y)	·			APPROPRIATE		
M A25 5,466,530 11/14/95 ENGLAND ET AL. 428 CM A26 5,478,906 12/26/95 HOWARD 526 352 CM A27 5,480,683 1/2/96 CHABROL ET AL. 427 2.26 CM A28 5,879,400 3/9/99 MERRILL ET AL. 623 22 CM A28 5,879,400 JOCUMENTS FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER (M/D/Y) A29 WO98/01085 1/15/98 WIPO A30 JP58157830A 9/20/83 JAPAN A31 EP0729981A1 9/4/96 EUROPE CM A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE CM A34 EP0373800A1 6/20/90 EUROPE CM A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	CM	A23	5,414,049	5/9/95	SUN ET AL.	525				
A25 5,466,530 11/14/95 ENGLAND ET AL. 428 CM A26 5,478,906 12/26/95 HOWARD 526 352 M A27 5,480,683 1/2/96 CHABROL ET AL. 427 2.26 A28 5,879,400 3/9/99 MERRILL ET AL. 623 22 FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER (M/D/Y) CLASS SUBCLASS TRANSLATION YES NO A29 WO98/01085 1/15/98 WIPO A30 JP58157830A 9/20/83 JAPAN A31 EP0729981A1 9/4/96 EUROPE A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE A34 EP0373800A1 6/20/90 EUROPE CM A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	(M)	A24	5,449,745	9/12/95	SUN ET AL.	528				
A27 5,480,683 1/2/96 CHABROL ET AL. 427 2.26 M A28 5,879,400 3/9/99 MERRILL ET AL. 623 22 FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER (M/D/Y) CLASS SUBCLASS TRANSLATION YES NO A29 WO98/01085 1/15/98 WIPO A30 JP58157830A 9/20/83 JAPAN A31 EP0729981A1 9/4/96 EUROPE CM A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE CM A34 EP0373800A1 6/20/90 EUROPE CM A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	CM,	A25	5,466,530	11/14/95	ENGLAND ET A	L. 428				-
A27 5,480,683 1/2/96 CHABROL ET AL. 427 2.26 A28 5,879,400 3/9/99 MERRILL ET AL. 623 22 FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER (M/D/Y) CLASS SUBCLASS TRANSLATION YES NO A29 WO98/01085 1/15/98 WIPO A30 JP58157830A 9/20/83 JAPAN A31 EP0729981A1 9/4/96 EUROPE A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE A34 EP0373800A1 6/20/90 EUROPE A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	CM	A26	5,478,906	12/26/95	HOWARD	526		352		
A28 5,879,400 3/9/99 MERRILL ET AL. 623 22		A27	5,480,683	1/2/96	CHABROL ET A	L. 427		2.26		
DOCUMENT DATE COUNTRY CLASS SUBCLASS TRANSLATION YES NO	_	A28	5,879,400	3/9/99	MERRILL ET AL	. 623		22		
DOCUMENT NUMBER (M/D/Y) CLASS SUBCLASS TRANSLATION YES NO	CM			FORE	IGN PATENT DO	CUMENTS				
NUMBER (M/D/Y) A29 WO98/01085 1/15/98 WIPO A30 JP58157830A 9/20/83 JAPAN A31 EP0729981A1 9/4/96 EUROPE CM A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE CM A34 EP0373800A1 6/20/90 EUROPE CM A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN		ſ	DOCUMENT				SS	SUBCLASS	TRANSL	ATION
A30 JP58157830A 9/20/83 JAPAN A31 EP0729981A1 9/4/96 EUROPE A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE A34 EP0373800A1 6/20/90 EUROPE A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN					0001111	. 52	.00	00000100		
A31 EP0729981A1 9/4/96 EUROPE A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE A34 EP0373800A1 6/20/90 EUROPE CM A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	· M2	A29	WO98/01085		WIPO					
A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE A34 EP0373800A1 6/20/90 EUROPE A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	6 VVV	A30	JP58157830A	9/20/83	JAPAN					··
A32 EP0722973A1 7/24/96 EUROPE A33 EP0737481A1 10/16/96 EUROPE A34 EP0373800A1 6/20/90 EUROPE A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	2000	A31	EP0729981A1	9/4/96	EUROPE					
A33 EP0737481A1 10/16/96 EUROPE A34 EP0373800A1 6/20/90 EUROPE A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	CIT	420	ED070007344	7/04/06	FURORE					
A34 EP0373800A1 6/20/90 EUROPE A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	CM	A32	EP0722973A1	7724796						
A34 EP0373800A1 6/20/90 EUROPE A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN	CM	A33	EP0737481A1	10/16/96	EUROPE					
A35 JP04185651A 7/2/92 JAPAN A36 JP041982242 6/17/92 JAPAN		A34	EP0373800A1	6/20/90	EUROPE					
A36 JP041982242 6/17/92 JAPAN	^ .	A35	JP04185651A	7/2/92	JAPAN					
	A .	A36	JP041982242	6/17/92	JAPAN	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)										
A 100 A37 SAUNDERS ET MEDICAL DEVICE & DIAGNOSTIC INDUSTRY 222:89-92 (1993)	0.100	A37	A37 SAUNDERS ET MEDICAL DEVICE & DIAGNOSTIC INDUSTRY 222:89-92 (1993)							
AL. A38 STREICHER INVESTIGATION ON STERILIZATION AND MODIFICATION OF HIGH MOLECULAR WEIGHT POLYETHYLENES BY IONIZING IRRADIATION, BETA-GAMMA (1/89)	C.M	A38								
A39 KANG ET AL. J. OF AMER. CHEM. SOC. 89(9): 1980-1986 (1967)	$C_{NN}\Lambda$	A39	KANG ET AL.					IION, BETA-GA	IIVIIVIA (1708	<u>')</u>
A40 GROBBELAAR J. OF BONE AND JOINT SURGERY 60-B(3): 370-374 (1984)		A40		J. OF BONE AND JOINT SURGERY 60-B(3): 370-374 (1984)						
A41 NUSBAUM ET J. OF BOIMED MATERIAL RESEARCH 13: 557-576 (1979)	^	A41	NUSBAUM ET	J. OF BOIMED MATERIAL RESEARCH 13: 557-576 (1979)						
A42 ROSE ET AL. J. OF ORTHOPAEDIC RESEARCH SOCIETY 2(4): 393-400 (1984)	CW_	A42		J. OF ORTHOPAEDIC RESEARCH SOCIETY 2(4): 393-400 (1984)						
A43 OONISHI ET AL. SUPER LOW WEAR CROSS-LINKED UHMWPE BY HEAVY HIGH-DOSE RADIATION, WPOA 2 ND CONGRESS OF HIP SECTION, PG. 61 (1996)	011/3			SUPER LOW WEAR CROSS-LINKED UHMWPE BY HEAVY HIGH-DOSE RADIATION, WPOA 2 ND CONGRESS OF HIP SECTION, PG. 61 (1996)						
EXAMINER DATE CONGRESS OF HIP SECTION, PG. 61 (1996) DATE CONSIDERED.										

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy on this form with next communication to applicant.

(Sheet 3 of 3								
FÖRM PTÖ 1449 (modified)				ATTY DOCKET NO. 37697-0035	SERIAL NO. To be assigned			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				APPLICANT Edward W. MERRILL et al.				
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				FILING DATE GROUP Concurrently herewith To be assigned				
		OTHER DOCL	JMENT(S) (I	l				
CMS	A44	JAHAN ET AL.		MED RESEARCH 25: 1005-1016		-		
SW	A45		(1995)		, DESIGNA	ATION: E1649-94, PGS. 870-888		
CM	A46	DIJKSTRA ET AL.		30: 866-873 (1989)				
CW	A47	OONISHI ET AL.	RADIA. PHYS. CHEM 39(6): 495-504 (1992)					
	A48	OONISHI ET AL.	ENCYCLOPEDIC HANDBOOK OF BIOMATERIALS AND BIOENGINEERING 2: 1853-1868 (1995)					
CM	A49	ATKINSON	SILANE CROSS-LINKED HDPE FOR PROSTHETIC APPLICATIONS, POLYMERS IN MED. AND SURGERY, CONF. HELD BY PLASTICS & RUBBER INST. & BIOLOGICAL ENG. SOC. (1989)					
cw	A50	JONES ET AL.	WEAR 70:	77-92 (1981)				
mo	A51	GIELENZ ET AL.	COLLOID	& POLYMER SCI. 260: 742-753	(1982)			
ÜM	A52	GENT ET AL.	J. OF POL	MER SCI 5: 47-60 (1967)				
CMC)	A53	ZOEPFL ET AL.	J. POLYMI	ER SCI POLYM. CHEM. ED 22: 2	2033-2045	(1984)		
M	A54	MANDELKERN ET AL.	NATIONAL	BUREAU OF STANDARDS 82:	466-453 (1960)		
m	A55	DU PLESSIS ET AL.	RADIAT. F	PHYS. CHEM. 9: 647-652 (1977)				
CM	A56		COMPLAII	NT				
()M	A57		AMENDED	COMPLAINT				
CM	A58			OF DEFENDANTS MASSACHUSETT CORPORATION TO AMENDED COI				
un	A59			PLAINTIFF, AMBUJ D. SAGAR, PH. JSETTS INSTITUTE OF TECHNOLO				
,								
			<u>.</u>					
EXAMINER (100 1	Win to	1	DATE CONSIDERI	FD 1			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.